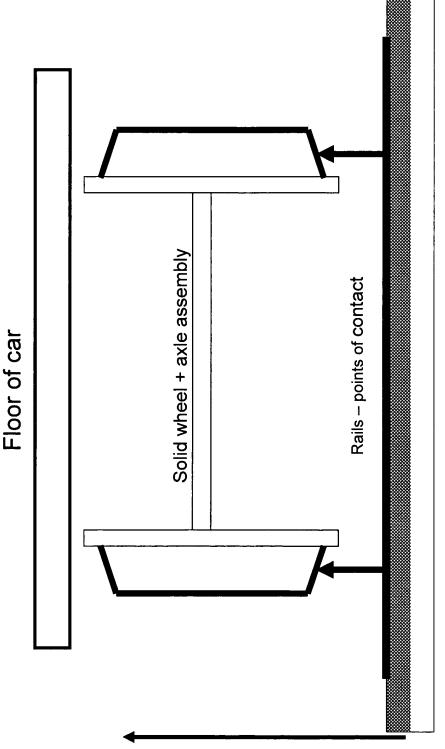


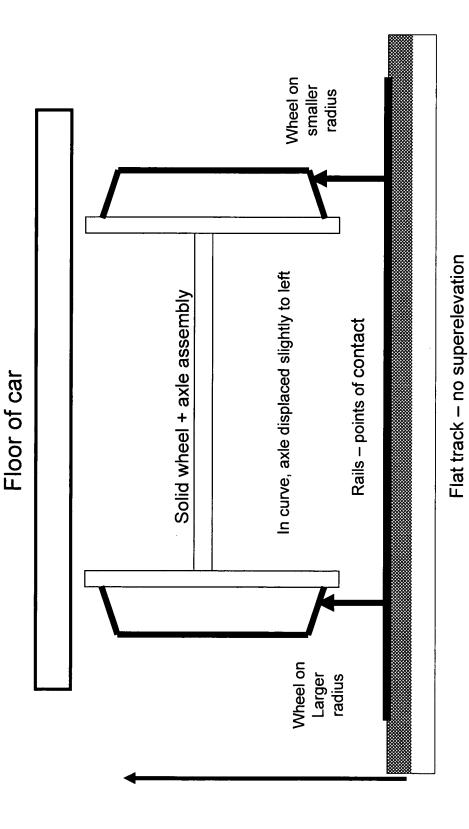
Figure A - Function of tapered (coned) wheels



Flat track - no superelevation

Tapered (coned) wheels are naturally self-centering while rolling down the track

Figure B - Function of tapered (coned) wheels: wheels on a curve of tapered (coned) wheels:



Natural curving: difference = diameter outer wheel minus diameter inner wheel Natural curving radius on inner rail = Gauge x diameter inner wheel / difference

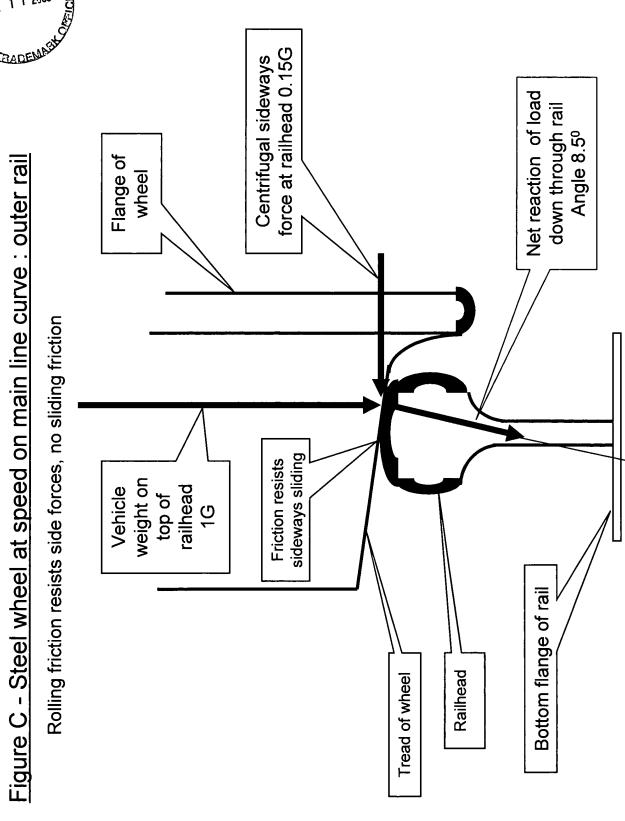






Figure D - Steel wheel on sharp curve : outer rail

Sliding friction at flange and at tread (The cause of squealing wheels)

